HUTCHINSON SUSTAINS INJURY

Emerges from Scrimmage with Twisted Knee and Ankle

With the determination with which the injury was sustained, it was discovered that the injury was a most unpleasant one for the man wounded in the game. When the man was first examined, he was seen to be a good deal worse than the man who was wounded in the game. The man was not able to play after the injury was sustained, and he was taken to the hospital for treatment. The man was not able to play after the injury was sustained, and he was taken to the hospital for treatment.

BIBLE SONGS COME OFFERED

Undergraduate Bible Enthusiasts Open Session; Sing Hymn to Wharton Last Evening

With Dr. S. N. Paton, Professor of Political Economy in the Wharton School, and Dr. J. J. DuBois, Professor of Bible Study Movement was launched for this year last evening at 7:30 in the library room. The undergraduate and graduate students attended the first Bible Study Burgess in Houston Hall. Following a "Dutch" supper, served in the hall, the class gathered in the hall. The class was composed of those who were interested in the study of the Bible and the application of its principles to the modern world.

LEGAL MUSIC IS MUSICAL

Reception Last Night in Rodman Hall: Singing by Students of Singers from Law School on Yale Quadrangle

Even great students of the arts of jurisprudence can make merry in the mate of their art. The law students sang last evening in the rotunda of the Law School in Rodman Hall. There was a song to old and new men by the faculty, punctuated by more singing and reading speeches. The librarian marked the event as the most notable of the law school. Former members and new students were present and the former students were marked by the fact that the event was marked by the former students. The former students were marked by the event.

GRADUATE SCHOOL OPENS

Notable Address Given by Professor Shilling, President of the Teacher and the Investigator.

The opening of the twelfth session of the Graduate School yesterday was marked by unusual interest. Deans of departments were present, and in his opening address he wanted the students to state the following:

"The Teacher and the Investigator." Professor Shilling declared the lack of appreciation of pure literary and scientific investigation, saying: "In America we are not the sort of people to put our faith in pure science. Neither in pure nor in historical investigation is there the same amount of industrial experimentation, and large enterprise projects reward the scientist, the engineer, or bacteriologist who will work in the field of pure investigation. We understand, too, the need of experimentation in pure science, and we grudge very little the discontinuance of experiment pursued in the present degree. The yearly maintenance of three out of the ten students is wasted."

"Experience in science looking to the development of the student's capacities is the essence of research recognized among the scientific professions. The investigation in science (like the genius) of the student is the most valuable asset in a civilized society, to be cherished and guarded through the present and future."

"We do not only make men add to the sum total of the world's knowledge, but the knowledge which they live and make for the use of others."

The speaker then took up the position that the student's life is the best of all life, and in the biologically and mentally salutary life of the student the student can be one of the young and the men. He said that the student's life is the best of all life, and in the biologically and mentally salutary life of the student the student can be one of the young and the men.

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Wilton has graduated, and it seems that Shoemaker will be unable to take up rowing this year, but with these two exceptions all the men will be back. There seems to be every hope, therefore, for a successful year.

The real issue is up to the Freshman crew. This June three of last year's eight will graduate, and twelve months later four more will go out from the University. Men must be designated now who some day will be able to fill these vacancies. The present Sophomore class does not seem to be very strong crew material. It is

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AVIATION EXPLAINED

G. A. Richardson gives illustrated lecture on "Flight," its development and relation to birds.

G. A. Richardson, 1912, College, President of the International Aeronautical Association, and a member of the Pennsylvania Aero Club, delivered last evening, in Houston Hall, a most interesting and instructive illustrated lecture on "Flight," primarily for the purpose of arousing interest in aeronautics among students. The lecture was thorough in that it covered the subject of aerial inventions and their development, starting with all sorts of contrivances imagined by the Romans in the first century A.D. to the modern dirigible and flying machine of France, Germany, and America.

Practically no active interest was taken in the subject of aviation until the fifteenth century, when advances were made in the art of flying with the aid of peculiar and impracticable wings, which were devised to be propelled by arm and leg power, and balloons which were to be floated by blowing downwards with a bellows and other equally strange methods.

In the study of this complex subject, scientific attention is given to the various species of birds and their manner of flying. Strange to say, the heavier the bird is the smaller is its wing area. It has been almost conclusively proved that the gliding of birds without apparent effort is due to an almost invisible flapping of the tips of the wings.

Other flying animals which the aeronaut finds profitable to study are insects of all kinds, the flying squirrels, birds of prey, and fish. These animals are all very heavy as compared to their wing area and glide rather than fly, depending almost entirely upon the initial speed for the height of flight. The similarity of action in flying machines has been carefully studied.

In 1783 the first practical balloon was invented, and at once the whole civilized world went balloon-crazy. The greatest height ever attained by man was 35,000 feet. Within the past few years wonderful balloons, with self-regulating instruments have reached a height of 80,000 feet or approximately eighteen miles.

The next advance came in the form of the dirigible, which is a long, narrow balloon propelled by a motor and the Zeppelin's dirigibles, the largest of which is 250 feet long and the "Republic," which is owned by the French Government, are perhaps the most famous ships of this type. Moving pictures of these were shown. These machines are most satisfactory in many ways: in the first place, because of the great cost of manufacture; size and complexity of materials used and the labor required; secondly, because of the size and difficulty of housing and the strain placed upon them by speed over twenty-five miles an hour; besides they are almost unspeakable in a strong wind, and furthermore, gas, when it can be obtained, is very expensive—it costs 10,000 to fill the latest of the Zeppelin dirigibles once.

The most recent and interesting development along aerial lines is the rapid progress being made in the biplane dirigible or flying machine. There are very simple in structure, containing as a rule—a motor—although each new machine differs from any other in detail—one or more planes, a light engine, a very fine one, an opera, a rudder, one or two propellers and usually horizontal planes arranged so as to keep the machine from rolling. In front there are usually only two small planes, which can be started upward or downward, according as the opera wishes to ascend or descend. The biplanes of this type were shown by the exception, while moving pictures showed the great French and American dirigibles last year.

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